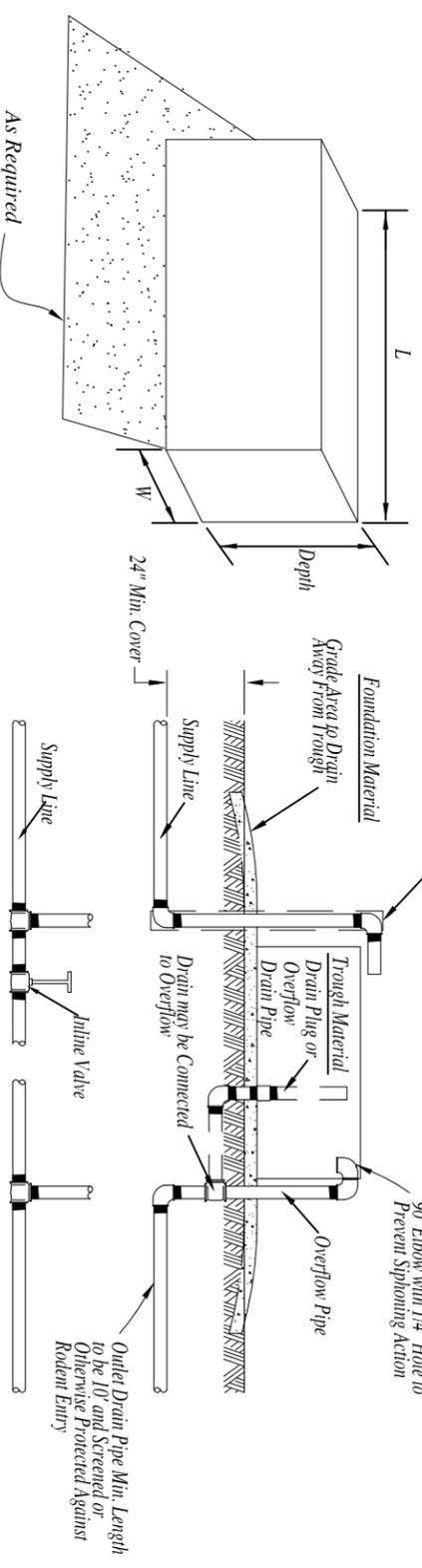


**TROUGH**  
 Length X Width or Diam. \_\_\_\_\_  
 Gage \_\_\_\_\_  
 Depth \_\_\_\_\_  
 Capacity \_\_\_\_\_ Gal.

**PIPE**  
 Supply Riser \_\_\_\_\_  
 Diameter - Material - Length \_\_\_\_\_  
 Overflow \_\_\_\_\_  
 Diameter - Material - Length \_\_\_\_\_  
 Outlet \_\_\_\_\_  
 Diameter - Material - Length \_\_\_\_\_  
 Outlet Projection \_\_\_\_\_

- Notes:**
1. Install permanent watering facilities on a firm, level foundation that will not settle differentially. Examples of suitable foundation materials are bedrock, compacted gravel, and stable, well compacted native soils.
  2. Where corrosion may be an issue, the cooperatior shall apply either a coal tar or epoxy coating to all exposed threaded connections. The following types of coatings may be used:
    - Coal tar epoxy paint meeting requirements of AWWA C203, "Coal Tar Protective Coatings and Linings for Steel Water Pipeline (enamel and tape) Hot Applied" (Kippers-Bitumastic No. 300-M is an approved off the shelf product);
    - Epoxy paint meeting the requirements of AWWA C210, "Liquid-Epoxy Coating Systems for the Interior and Exterior of Steel Water Pipelines" or AWWA C213, "Fusion-Bonded Epoxy Coating for Interior and Exterior of Steel Water Pipelines". The coating shall have a minimum thickness of 10 mills (approximately 2 coats);
    - Locally available product (Rust-oleum, High Performance, W9200 Potable Water Coating or equivalent) suitable for use in potable water.
  3. Surface preparation and application shall be per manufacturer recommendations.
  4. Disturbed areas shall be vegetated according to a re-vegetation plan using adapted plant materials. Management measures shall be provided to control invasive species and noxious weeds.
  5. The system is not designed to be operated in freezing weather. System shall be drained prior to freezing weather.
  6. A trough or tank shall be adequately anchored so that it cannot be moved by livestock or wind, particularly when they are empty. Anchorage requirements will be designed for site specific conditions. Any tank over 8-feet in height shall be anchored to prevent movement from sliding or overturning.
  7. Concrete anchors (3 or 4 numbers) shall be equally spaced with a minimum size of (L x W x H) as determined by the Tank Stability Analysis and Anchor Design spreadsheet.



**Rectangular Trough**

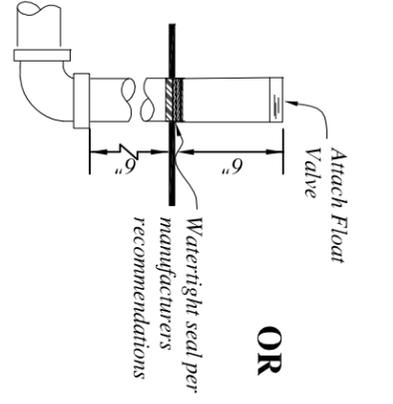
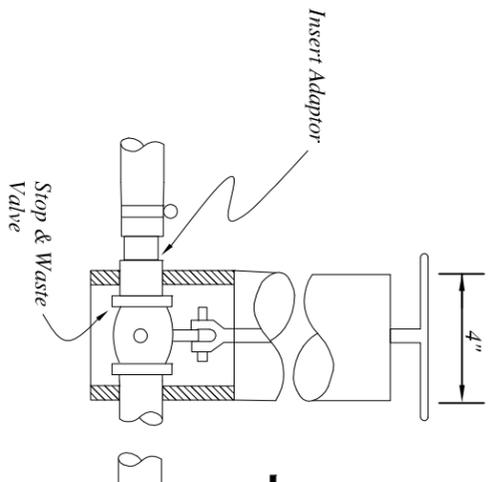
N.T.S

**Trough Piping Detail**

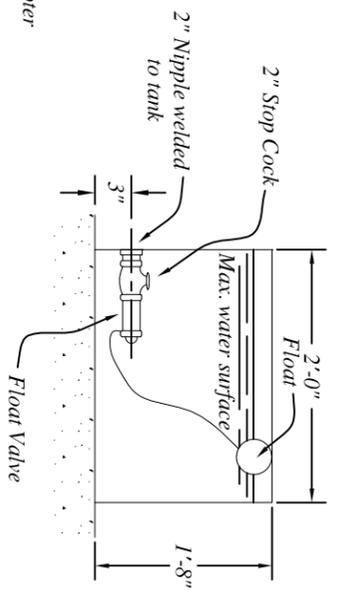
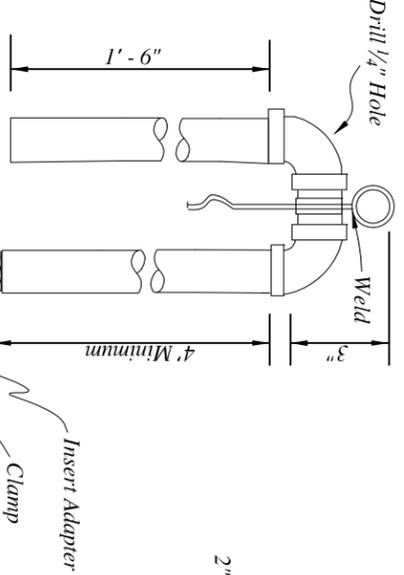
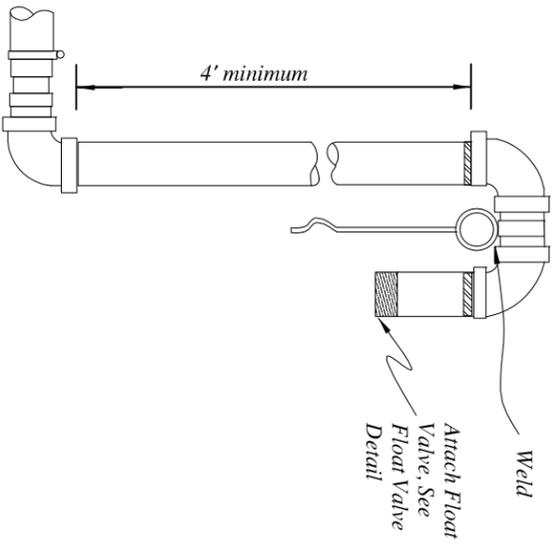
N.T.S

See Arizona Tech Note, AZ-9-2 Biology, "Watering Facility Escape Ladder Design" for minimum design criteria.

Note: All inlet and outlet pipe must be new galvanized steel or copper pipe. HDPE pipe may be used for the overflow.



OR



**Float Valve Detail**

N.T.S

**Inlet Details**

N.T.S

**Overflow Detail (If Required)**

N.T.S

DATE	APPROVED	TITLE	JAA

REV/S/ONS	Drawing No.
	4Z614C2_09_09

Sheet of



Arizona Drawing Template  
 Galvanized Trough – 614C2

Field Office

County, Arizona

Designed	Drawn	Checked	Approved	Date
	I. Kolling			9/09